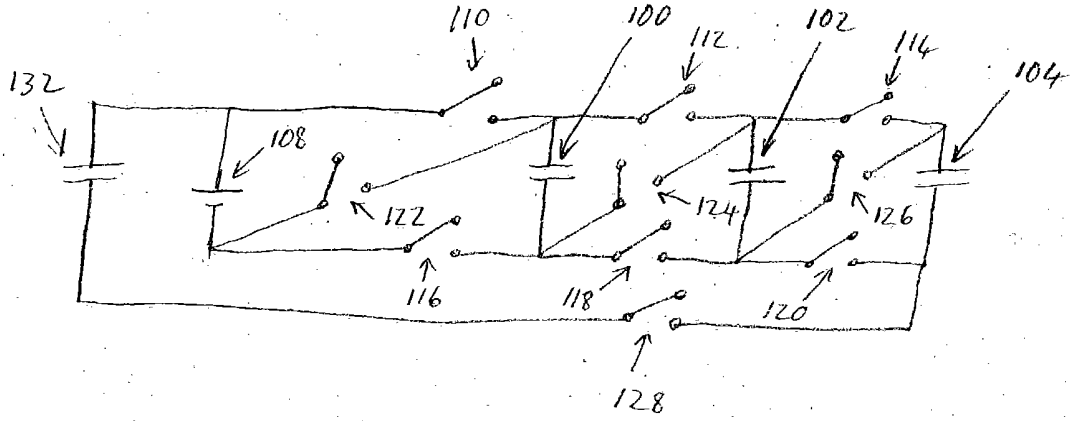


Fig. 1 (Prior Art)

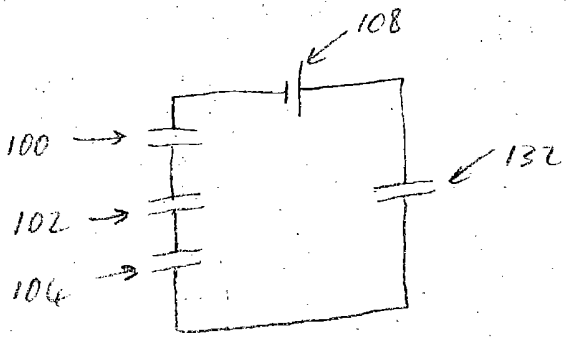


Fig 2 (Prior Art)

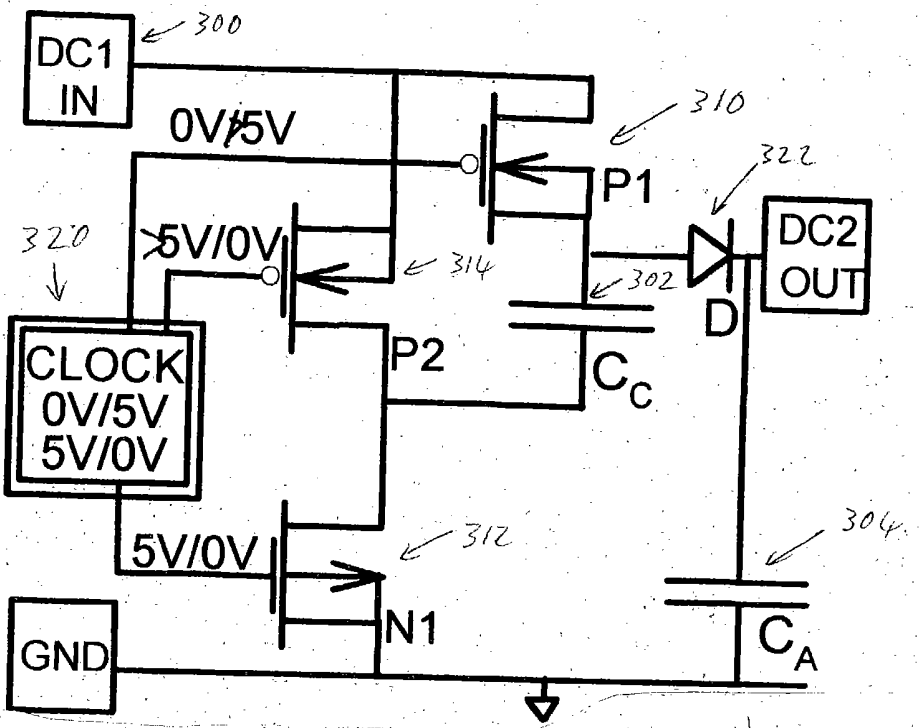


Fig 3 (Prior Art)

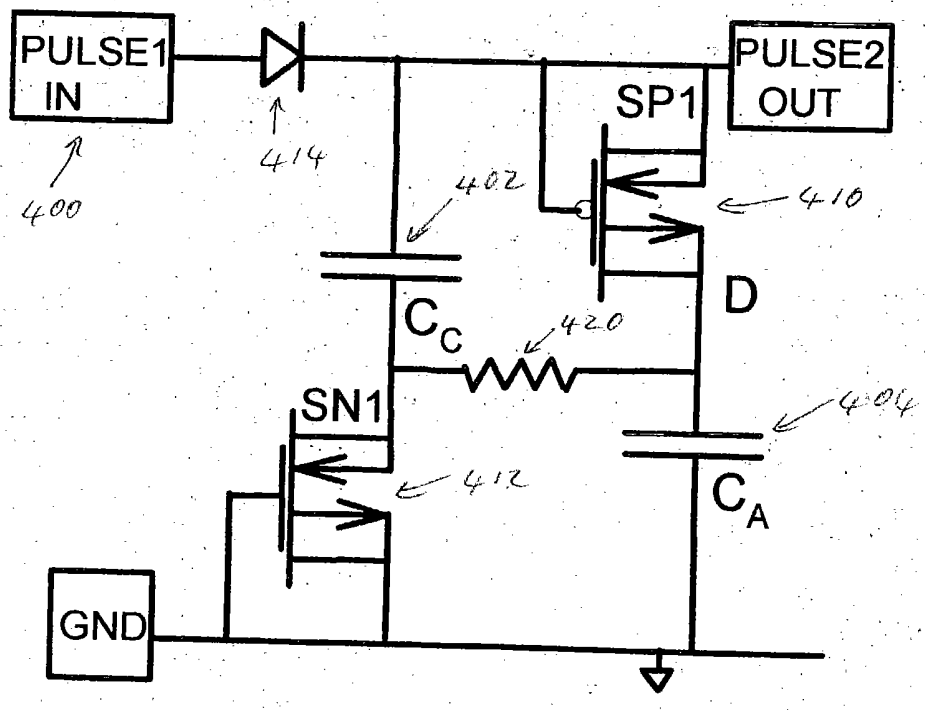


Fig 4

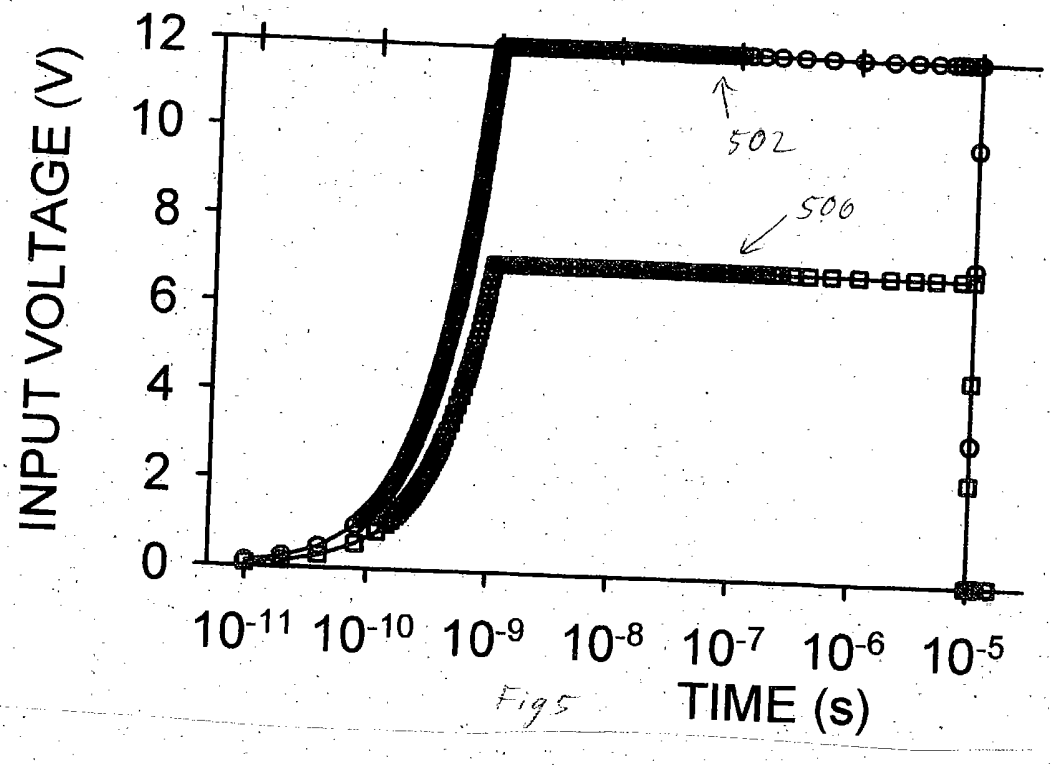

INPUT VOLTAGE (V)
12
10
8
6
4
2
0
502
506
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5}
TIME (s)

Fig 5

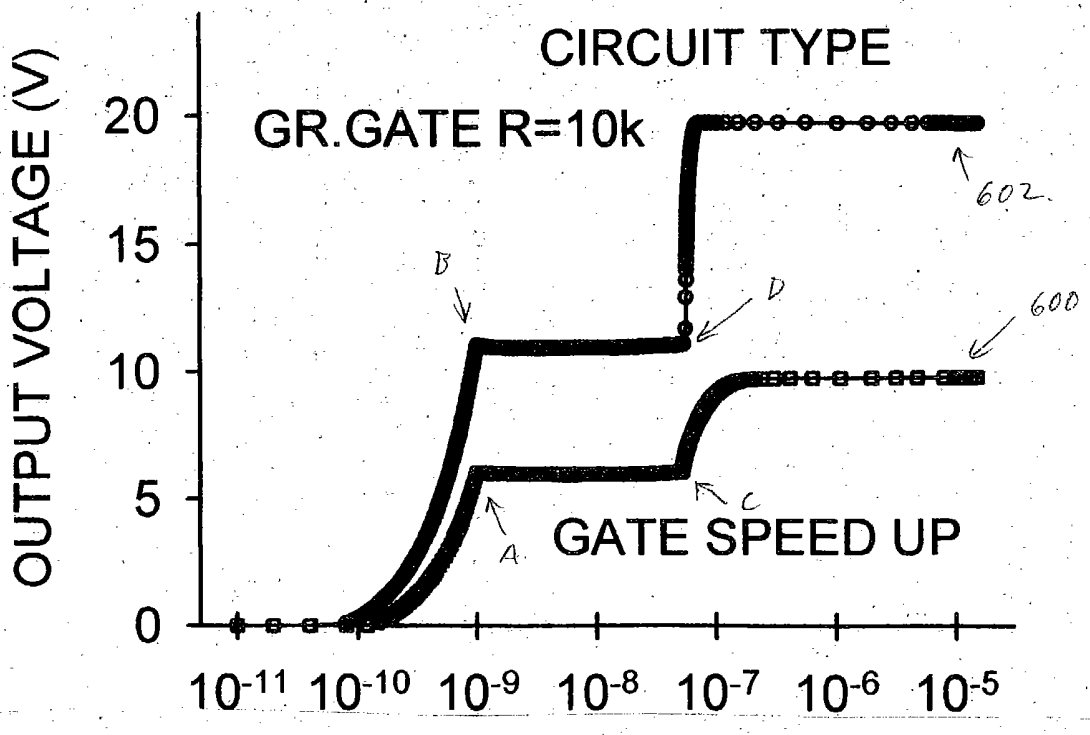

CIRCUIT TYPE
GR.GATE R=10k
OUTPUT VOLTAGE (V)
20
15
10
5
0
602
600
B
D
C
A
GATE SPEED UP
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5}

Fig 6

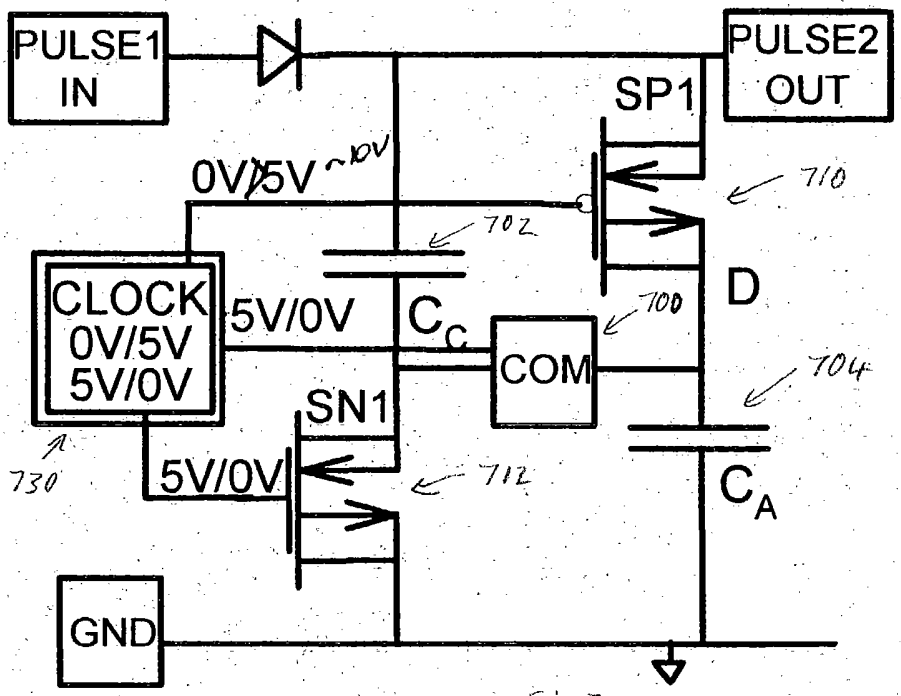
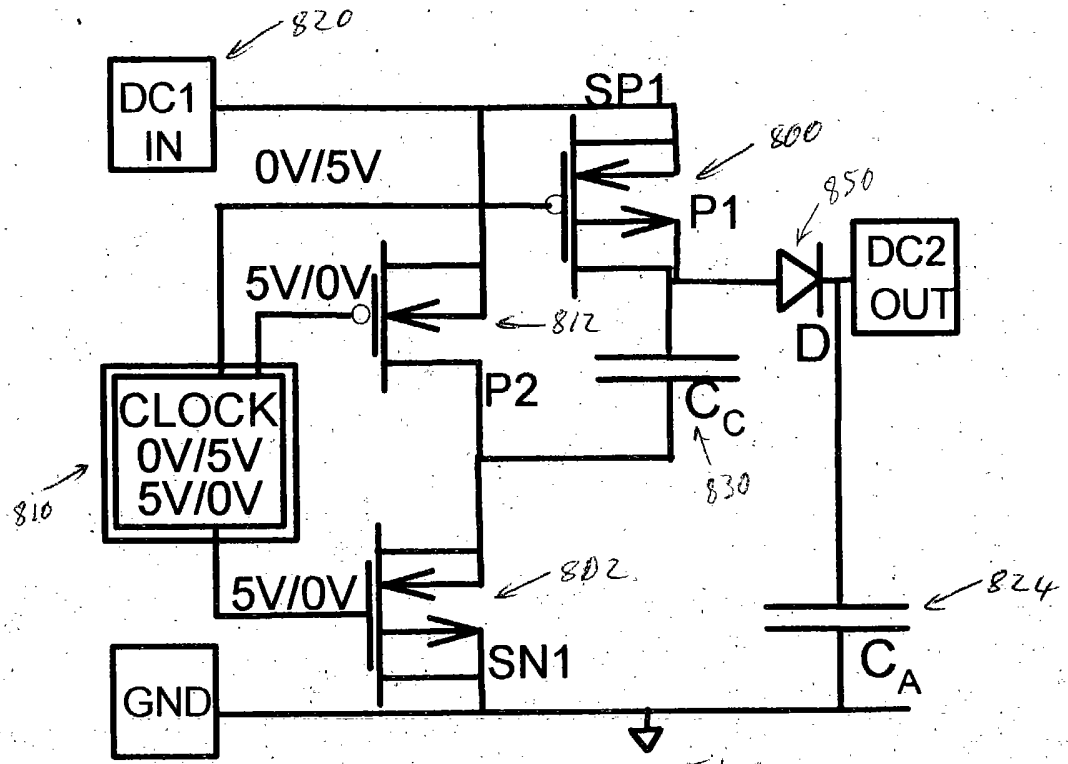

PULSE1
IN
PULSE2
OUT
SP1
0V/5V
710
702
CLOCK
0V/5V
5V/0V
5V/0V
C_C
700
D
COM
704
SN1
730
5V/0V
712
C_A
GND

Fig 7


820
DC1
IN
SP1
0V/5V
800
P1
850
DC2
OUT
5V/0V
812
D
P2
C_C
830
CLOCK
0V/5V
5V/0V
810
5V/0V
802
824
SN1
C_A
GND

(a) Fig 8

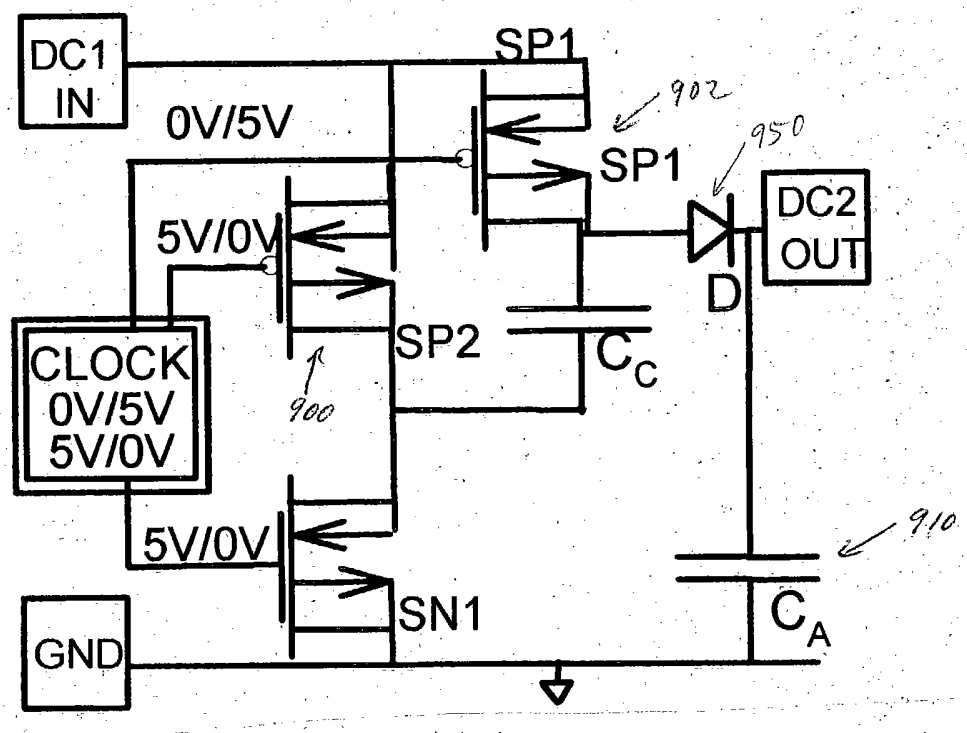

DC1
IN
SP1
0V/5V
902
SP1
950
DC2
OUT
5V/0V
D
SP2
C_C
CLOCK
0V/5V
5V/0V
900
910
5V/0V
SN1
C_A
GND

Fig 9

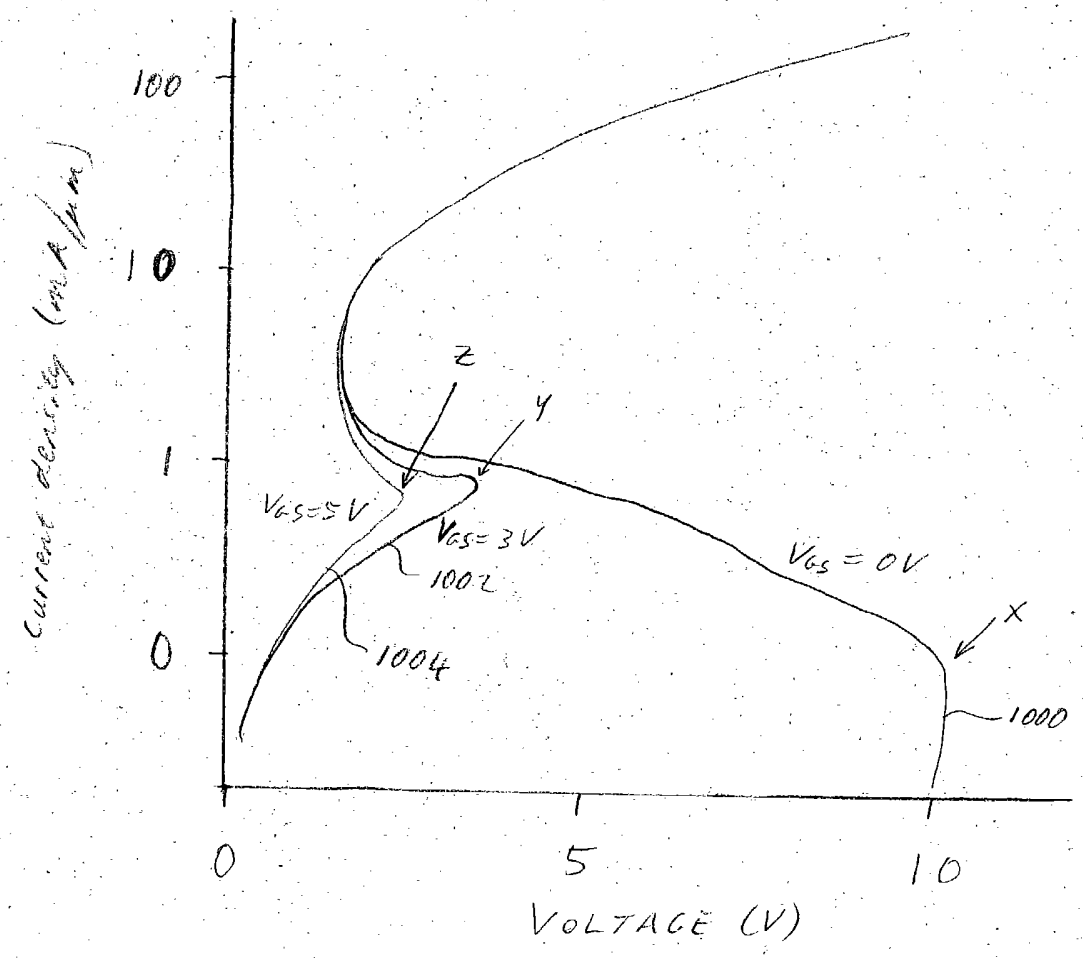

100
10
1
0
Current density (mA/μm)
z
y
V_{GS}=5 V
V_{GS}= 3 V
1002
1004
V_{GS} = 0 V
x
1000
0
5
10
VOLTAGE (V)

Fig 10